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## Patent Abstracts of Japan

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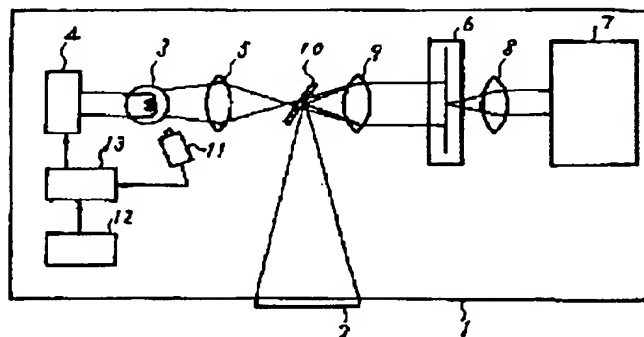
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INT.CL. : H04N 5/74 G02F 1/133

TITLE : PROJECTION TYPE LIQUID CRYSTAL  
 DISPLAY DEVICE



**ABSTRACT :** PROBLEM TO BE SOLVED: To suppress reduction in a luminous quantity due to a secular change by providing an automatic adjustment device comparing a setting value of a light source setting circuit with a sensor output and adjusting automatically the luminous quantity of a light source depending on the comparison value.

**SOLUTION:** A light emitted from a light source 3 is projected to a liquid crystal cell 6 via a condenser lens 5 and a reflected light from the cell 6 is obtained. The reflected light is controlled by a laser beam controller 7 and a write lens 8 and the reflected light is displayed on a screen 2 via a projection lens 9 and a transmission mirror 10. The luminous amount of the light source 3 is controlled automatically by an output adjustment circuit that receives the measurement value of the luminous level of the light source 3 by a luminance sensor 11 and an output of a setting storage circuit 12 to which a proper level is set in advance. Then the service life of the light source 3 is improved by adjusting the luminous quantity of the light source 3 in response to the state of the light source 3 automatically and manhours for replacement of light source are reduced.

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